

In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

- 1        1. (Currently Amended) A self-contained, portable music player comprising:
  - 3            a rechargeable battery pack for powering the music player;
  - 4            an input/output device including at least a keypad for receiving user inputs and a display;
  - 5            a memory capable of storing digital music in at least one compressed digital format;
  - 6            a data processor connected to said input/output device and said memory, said data processor programmed to decompress said digital music into uncompressed digital music samples;
  - 7            an audio coder-decoder connected to said ~~connected to~~ data processor for receiving said uncompressed digital music samples from said data processor and converting said uncompressed digital music samples into analog music;
  - 8            a headset connector connected to said audio coder-decoder for supplying said analog music to an external headset earphone; and
  - 9            a base connector including
    - 10            a power connection connected to said rechargeable battery pack capable of receiving charging power from an external base unit, and
    - 11            an analog output connection connected to said audio coder-decoder for supplying said analog music to an external base unit for amplification and reproduction via speakers, and
    - 12            an analog input connection connected to said audio coder-decoder for receiving an analog input from an external base unit;
  - 13            wherein the self-contained, portable music player operates in

28               a portable mode disconnected from a base unit and powered  
29       by said rechargeable battery pack, wherein a user may listen  
30       to selected digital music stored in said memory via an  
31       external headset earphone, and

32               in a base mode connected to a base unit via said base  
33       connector and powered via said power connector, wherein a user  
34       may listen to selected digital music stored in said memory via  
35       speakers of an external base unit and wherein a user may  
36       listen to music received on said analog input connection of  
37       said base connector.

1               2. (Original) The self-contained, portable music player of  
2       claim 1, wherein:

3               said data processor is further programmed in cooperation with  
4       input/output device said whereby a user may enter volume control  
5       data via said keypad; and

6               said base connector further includes a volume data connection  
7       for transmission of volume control data from the self-contained,  
8       portable music player to an external base unit.

1               3. (Original) The self-contained, portable music player of  
2       claim 1, wherein:

3               said base connector further includes a set of digital  
4       connections connected to said data processor and said audio coder-  
5       decoder for bi-directional transmission of digital data with an  
6       external base unit.

1               4. (Original) The self-contained, portable music player of  
2       claim 1, further comprising:

3               an infrared transmission interface connected to said data  
4       processor for bi-directional transmission of digital data with an  
5       external base unit.

1       5. (Original) The self-contained, portable music player of  
2 claim 1, further comprising:

3            a microphone;

4            a pre-amplifier having an input connected to said microphone  
5 and an output connected to said audio coder-decoder;

6            wherein said audio coder-decoder digitizes sound received by  
7 said microphone, said data processor programmed to store said  
8 digitized sounds in said memory.

1       6. (Original) The self-contained, portable music player of  
2 claim 5, wherein:

3            said data processor is further programmed to compress said  
4 digitized sounds into a compressed digital format and store said  
5 compressed digital format in said memory.

1       7. (Original) The self-contained, portable music player of  
2 claim 5, wherein:

3            said data processor is further programmed to  
4              recall digitized sounds stored in said memory, and  
5              compress said recalled digitized sounds into a compressed  
6              digital format and store said compressed digital format in  
7              said memory.

1       8. (Currently Amended) The self-contained, portable music  
2 player of claim 1, wherein:

3            ~~said base connector further includes an analog input~~  
4 ~~connection connected to said audio coder-decoder for receiving an~~  
5 ~~analog input from an external base unit; and~~

6            wherein said audio coder-decoder digitizes analog input  
7 received via said analog input connection, said data processor  
8 programmed to store said digitized analog input in said memory.

1       9. (Original) The self-contained, portable music player of  
2 claim 8, wherein:

3           said data processor is further programmed to compress said  
4 digitized analog input into a compressed digital format and store  
5 said compressed digital format in said memory.

1       10. (Original) The self-contained, portable music player of  
2 claim 8, wherein:

3           said data processor is further programmed to  
4           recall digitized analog input stored in said memory, and  
5           compress said recalled digitized analog input into a  
6           compressed digital format and store said compressed digital  
7           format in said memory.

1       11. (Original) The self-contained, portable music player of  
2 claim 1, wherein:

3           said memory is a non-volatile memory capable of retaining data  
4 in the absence of electric power.

1       12. (Original) The self-contained, portable music player of  
2 claim 1, wherein:

3           said data processor is a digital signal processor.

1       13. (Currently Amended) A music system comprising:  
2           a self-contained, portable music player including  
3            a rechargeable battery pack for powering the music  
4           player,  
5            an input/output device including at least a keypad for  
6           receiving user inputs and a display;  
7            a memory capable of storing digital music in at least one  
8           compressed digital format,

9           a data processor connected to said input/output device  
10          and said memory, said data processor programmed to decompress  
11          said digital music into uncompressed digital music samples,  
12          an audio coder-decoder connected to said ~~connected to~~  
13          said data processor for receiving said uncompressed digital  
14          music samples from said data processor and converting said  
15          uncompressed digital music samples into analog music,  
16          a headset connector connected to said audio coder-decoder  
17          for supplying said analog music to an external headset  
18          earphone, and  
19            a first base connector including  
20            a first power connection connected to said  
21            rechargeable battery pack capable of receiving charging  
22            power from an external base unit, and  
23            a player analog output connection connected to said  
24            audio coder-decoder for supplying said analog music, and  
25            an analog input connection connected to said audio  
26            coder-decoder for receiving an analog input; and  
27          a base unit including  
28            a second base connector including  
29            a second power connection for connection to said  
30            first power connection,  
31            an analog input connection for connection to said  
32            player analog output connection of said first base  
33           connector,  
34            a base unit analog output connection for connection  
35           to said analog input connection of said first base  
36           connector,  
37          a power source connected to said second power connection  
38          for supplying recharging power for said rechargeable battery  
39          pack, pack,

40           a pre-amplifier having an input connected to said analog  
41        input connection and an output,

42           a power amplifier having an input connected to said  
43        output of said pre-amplifier and an output,

44           a tuner for receiving and demodulating analog audio  
45        signals, said tuner supplying said analog audio signals to  
46        said base unit analog output connection, and

47           a speaker system connected to said output of said power  
48        amplifier for reproducing sound corresponding to said output  
49        of said power amplifier,

50        wherein the music system operates in

51           a portable mode wherein said self-contained, portable  
52        music player is disconnected from said base unit and powered  
53        by said rechargeable battery pack, wherein a user may listen  
54        to selected digital music stored in said memory via an  
55        external headset earphone, and

56           in a base mode wherein said self-contained, portable  
57        music player is connected to said base unit via said first  
58        base connector and said second base connector and powered from  
59        said power source, wherein a user may listen to selected  
60        digital music stored in said memory via speakers of an  
61        external base unit and wherein a user may listen to music from  
62        said tuner supplied to said analog input connection of said  
63        first base connector.

1        14. (Original) The music system of claim 13, wherein:

2           said data processor is further programmed in cooperation with  
3        input/output device said whereby a user may enter volume control  
4        data via said keypad;

5           said first base connector further includes a volume data  
6        output connection for transmission of volume control data from the  
7        self-contained, portable music player;

8        said second base connector further includes a volume data  
9 input connection for connection to said volume data output  
10 connection; and

11        said pre-amplifier is further connected to said volume data  
12 input connection and producing an amount of amplification  
13 corresponding thereto.

1        15. (Original) The music system of claim 13, wherein:  
2        said first base connector further includes a set of first  
3 digital connections connected to said data processor and said audio  
4 coder-decoder for bi-directional transmission of digital data with  
5 an external base unit;

6        said second base connector further includes a set of second  
7 digital connections for connection to said set of first digital  
8 connections; and

9        said base unit further includes a disc drive connected to said  
10 set of second digital connections of said second base connector  
11 capable of storing and recalling digital data.

1        16. (Original) The music system of claim 13, further  
2 comprising:

3        an infrared transmission interface connected to said data  
4 processor for bi-directional transmission of digital data with an  
5 external base unit.

1        17. (Original) The music system of claim 1, further  
2 comprising:

3        a microphone;  
4        a pre-amplifier having an input connected to said microphone  
5 and an output connected to said audio coder-decoder;

6       wherein said audio coder-decoder digitizes sound received by  
7    said microphone, said data processor programmed to store said  
8    digitized sounds in said memory.

1       18. (Original) The music system of claim 17, wherein:  
2            said data processor is further programmed to compress said  
3    digitized sounds into a compressed digital format and store said  
4    compressed digital format in said memory.

1       19. (Original) The music system of claim 17, wherein:  
2            said data processor is further programmed to  
3              recall digitized sounds stored in said memory, and  
4              compress said recalled digitized sounds into a compressed  
5    digital format and store said compressed digital format in  
6    said memory.

1       20. (Currently Amended) The music system of claim 13,  
2  wherein:  
3            ~~said base unit further includes a tuner for receiving and~~  
4  ~~demodulating analog audio signals;~~  
5            ~~said first base connector further includes a base unit analog~~  
6  ~~output connection~~  
7            ~~said first base connector further includes a player analog~~  
8  ~~input connection connected to said audio coder-decoder for~~  
9  ~~receiving an analog input from said base unit;~~  
10          wherein said audio coder-decoder digitizes analog input  
11  received via said player analog input connection, said data  
12  processor programmed to store said digitized analog input in said  
13  memory.

1       21. (Original) The music system of claim 20, wherein:  
2            said data processor is further programmed to compress said  
3            digitized analog input into a compressed digital format and store  
4            said compressed digital format in said memory.

1       22. (Original) The music system of claim 20, wherein:  
2            said data processor is further programmed to  
3                recall digitized analog input stored in said memory, and  
4                compress said recalled digitized analog input into a  
5                compressed digital format and store said compressed digital  
6                format in said memory.

1       23. (Original) The music system of claim 13, wherein:  
2            said memory is a non-volatile memory capable of retaining data  
3            in the absence of electric power.

1       24. (Original) The music system of claim 13, wherein:  
2            said data processor is a digital signal processor.

1       25. (Currently Amended) A base unit for use with a self-  
2        contained, portable music player comprising:  
3            a tuner for receiving and demodulating analog audio signals;  
4            a base connector including  
5                a power connection,  
6                an analog input connection for receiving an analog input,  
7                a base unit analog output connection connected to said  
8                tuner to output demodulated analog audio signals;  
9                a power source connected to said power connection for  
10        supplying recharging power for the self-contained, portable music  
11        player;  
12            a pre-amplifier having an input connected to said analog input  
13        connection and an output,

14        a power amplifier having an input connected to said output of  
15    said pre-amplifier and an output, and  
16        a speaker system connected to said output of said power  
17    amplifier for reproducing sound corresponding to said output of  
18    said power amplifier.

1        26. (Original) The base unit of claim 25, wherein:  
2            said base connector further includes a volume data input  
3    connection for receiving of volume control data from the self-  
4    contained, portable music player;  
5            said pre-amplifier is further connected to said volume data  
6    input connection and producing an amount of amplification  
7    corresponding thereto.

1        27. (Original) The base unit of claim 25, wherein:  
2            said base connector further includes a set of digital  
3    connections for connection to a set of digital connections of the  
4    self-contained, portable music player; and  
5            said base unit further includes a disc drive connected to said  
6    digital connections of said base connector capable of storing and  
7    recalling digital data.

28. (Canceled)

1        29. (New) The self-contained, portable music player of claim  
2    1, wherein:  
3            said base connector further includes a digital data bus  
4    connection for bidirectional data exchange; and  
5            said data processor being further connected to said digital  
6    data bus connection of said base connector for communicating  
7    station selection data corresponding to inputs received from said

8 input/output device via said digital data bus connection to the  
9 base unit.

1       30. (New) The music system of claim 13, wherein:  
2       said self-contained, portable music player wherein  
3            said first base connector further includes a first  
4       digital data bus connection for bidirectional data exchange  
5       and

6            said data processor being further connected to said first  
7       digital data bus connection of said base connector for  
8       communicating station selection data corresponding to inputs  
9       received from said input/output device via said first digital  
10      data bus connection to the base unit;

11      said base unit wherein

12            said second base connector further includes a second  
13       digital data bus connection for connection to said first  
14       digital data bus connection for receiving digital data  
15       including station selection data, and

16            said tuner being connected to said second digital data  
17       bus connection and further selecting a station corresponding  
18       to said station selection data.

1       31. (New) The base unit of claim 25, wherein:  
2       said base connector further includes a digital data bus  
3       connection for receiving digital data including station selection  
4       data; and

5            said tuner being connected to said digital data bus connection  
6       and further selecting a station corresponding to said station  
7       selection data.